

ECAT Pre General Science Mathematics Chapter 8 Sequences and Series Online Test

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Sr	Questions	Answers Choice
1	if ag =19,a9=31 are the 6th and 9th term of an AP. and d=4 is the common difference, then 18th term of the sequence is	A. 65 B. 67 C. 71 D. 75
2	-2, 1, 4, 7, is	A. Harmonic sequence B. Arithmetic sequence C. Geometric sequence D. Arithmetic series
3	If 5,7 and 9 are A.Ms between a and b, then a and b is equal to	A. 2 and 12 B. 1 and 10 C. 3 and 11 D7 and 2
4	The5thand 13th terms of an A.P are 5 and-3 respectively The first term of the A.P is	A. 1 B15 C. 9 D. 2
5	If a,b,c are in arithmetic progression, then 1/a,1/b.1/c are in	A. A.M B. G.M C. H.M D. G.P
6	If three unequal numbers p, q, r are in H.P. and their squares are in A.P., then the ration p : q : r is	
7	H_1,H_2,H_3,H_n are called n harmonic means between a and b if a, H_1,H_2,H_3,H_n b are in	A. H.P. B. G.P. C. A.P. D. None of these
8	How many numbers are there between 103 and 750 which are divisible by 6	A. 125 B. 107 C. 108 D. 113
9	If x,y are two positive distinct numbers then	A. A>G>H B. A <g<h a="G=H" c.="" d.="" none="" of="" td="" these<=""></g<h>
10	If b_1 , b_2 , b_3 , are in G.P. with first term unity and common ratio r, then the minimum value of b_1 - b_3 + b_5 is equal to	A. 3/4 B. 1/4 C. 1 D. None of these
11	If a_1 = 3, r = 2, then the nth term of the G.P. is	A. 2.3 ⁿ⁻¹ B. 3.2 ⁿ C. 3.2 ⁿ⁺¹ D. 3.2 ⁿ⁻¹
12	Question Image	A. 2 ² - n - 1 B. 1 - 2 ⁻ⁿ C. n + 2 ⁻ⁿ -1 D. 2 ⁿ -1
13	an -an-1,∀n∈N∧n>1 in an A.P is called	A. Common difference B. nth term C. Common ratio D. None of these
14	If all members of a sequence are real numbers then it is called	A. A.P B. Real Sequence C. G.P D. None of these
15	if a_1 =3, d=7 and a_n =59 , then the number of terms in A.P is	A. 7 B. 9 C. 11 D. 13
		A. G.P

16	The three consecutive numbers a,√ab,b are in	B. H.P C. G.M D. None of these
17	A number A is called the arithmetic mean between a and b if a, A, b is	A. Arithmetic sequence B. Geometric sequence C. Harmonic sequence D. Arithmetic sequence
18	Write the first four terms of the arithmetic sequence 5, 2, -1, is	A. 3 B4 C. 7 D. 1
19	In an A.P,a +(n-a)d is	A. 1st term B. General term C. Last term D. None of these
20	The 7th term of the A.P 7,11,15,is	A. 24 B. 31 C. 26 D. 23